



CAIT

Center for Advanced Infrastructure & Transportation
Rutgers, The State University of New Jersey

NJDOT Bureau of Research
QUARTERLY PROGRESS REPORT

Project Title:	Development of Airport Obstruction Identification System		
RFP NUMBER:		NJDOT RESEARCH PROJECT MANAGER: Ed Kondrath	
TASK ORDER NUMBER: 115 / 4-26857		PRINCIPAL INVESTIGATOR: Patrick Szary	
Project Starting Date: : 01/1/2002 Original Project Ending Date: 12/31/2003 Modified Completion Date: 12/31/2004		Period Covered: 1st Quarter 2004	

Task	% of Total	% of Task this quarter	% of Task to date	% of Total Complete
1. Literature Search	10%	0%	100%	10%
2. Develop criteria	5%	0%	100%	5%
3. Evaluate the cost effectiveness	8%	0%	100%	8%
4. Conduct laboratory experiments	5%	0%	80%	4%
5. Conduct laboratory/field experiments	15%	10%	90%	13.5%
6. Develop prototype software	25%	20%	80%	20%
7. Demonstrate field test system	5%	30%	50%	2.5%
8. Redesign a new prototype	5%	30%	80%	4%
9. Demonstrate prototype system	5%	10%	10%	.5%
10. Train NJDOT personnel	7%	0%	50%	3.5%
11. Final Report	10%	0%	10%	1%
TOTAL	100%			72%

Project Objectives:

Project Abstract:

1. Progress this quarter by task:

- A. The choice in GPS unit was revisited while attending the TRB Conference in Washington, D.C. The Leica GS20 was chosen to be a much better fit for the project and can be obtained at a substantially lower price than the previously specified GPS.
- B. The Industrial Twin Helicopter has begun to undergo the installation of the mounts for the components of the system. This work is anticipated to take a few weeks to complete.
- C. The airport selection process was visited to begin to determine a good facility for testing the system once the unit is complete.

2. Proposed activities for next quarter by task:

- A. The completion of the integration of the Bergen Industrial Twin and outfitting the unit with all the necessary components for testing.
- B. Completing the training of DOT personnel with a one-week intensive training session that is to take place.
- C. Test flying the helicopter at the chosen airport and sending acquired images to Oakland University for post processing and producing a detailed map.

3. List of deliverables provided in this quarter by task (product date): n/a

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4. Progress on Implementation and Training Activities:

Trainings sessions were conducted and have now been suspended due to weather as expected. Plans are being made for a full week training session when training resumes as the weather breaks.

5. Problems/Proposed Solutions:

The timeframe for the helicopter mount has taken slightly longer than expected and should be completed early next quarter if not by the end of the current quarter. Another problem has been the cold weather effecting the trainings, this was expected and as the weather improves trainings will resume.

Total Project Budget	\$210,000.00
Modified Contract Amount:	
Total Project Expenditure to date	\$109,372
% of Total Project Budget Expended	52%

* These are approximate expended amounts for the project; these estimates are for reference only and should not be used for official accounting purposes. For a more accurate project accounting please review the quarterly invoice for this project.